

~~This is a RED Stamp~~
**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

Manual No.: 5-21000-OPS-FO
Procedure No.: Table of Contents, Rev 38
Page: 1 of 4
Effective Date: 12/14/92
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

**VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)**

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FO.01	Air Monitoring and Dust Control	2	05/12/92
FO.02	Transmittal of Field QA Records	3	05/22/92
FO.03	General Equipment Decontamination	2	05/12/92
DCN 92.01	Clarification of Decontamination	2	07/21/92
FO.04	Heavy Equipment Decontamination	2	05/12/92
DCN 92.01	Expired	1	04/30/92
DCN 92.02	Expired	1	06/12/92
DCN 92.03	Consistency Change	1	09/18/92
FO.05	Handling of Purge and Development Water	2	05/12/92
FO.06	Handling of Personal Protective Equipment	2	05/12/92
DCN 92.01	Monitoring Change	2	09/18/92
FO.07	Handling of Decontamination Water and Wash Water	2	05/12/92
DCN 92.01	Consistency Change	2	09/18/92

ADMIN RECORD

**DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991**

A-SW-000508

**ROCKY FLATS PLANT
EMD OPERATING
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**Manual No.: 5-21000-OPS-FO
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Organization: Environmental Management**

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FO.08	Handling of Drilling Fluids and Cuttings	2	05/12/92
DCN 92.04	Clarification of Drill Cuttings	2	06/04/92
DCN 92.05	Handling of Drilling Fluids and Cuttings	2	09/02/92
DCN 92.06	Clarification of Responsibility	2	09/09/92
DCN 92.07	Elimination of Drilling Requirements on Earthen Dams	2	09/10/92
DCN 92.08	Consistency Change	2	09/18/92
DCN 92.09	Clarification of Augering Technique for OU-6	2	10/28/92
DCN 92.10	Improve Tracking of Samples	2	12/07/92
FO.09	Handling of Residual Samples	2	05/12/92
FO.10	Receiving, Labeling, and Handling Environmental Materials Containers	2	05/12/92
DCN 92.03	Clarification on Drums	2	06/12/92
DCN 92.04	Decrease in Weekly Inspections of Gray Drums	2	11/18/92
DCN 92.05	Requirement Reduction	2	09/16/92
DCN 92.06	Improve Accountability	2	10/15/92
DCN 92.07	Change Drum Inspection Period	2	10/22/92
DCN 92.08	Drum Log F or M Change	2	12/03/92
FO.11	Field Communications	2	05/12/92
FO.12	Decontamination Facility Operations	2	05/12/92

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12/14/92
Environmental Management**

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
FO.13	Containerization, Preserving, Handling and Shipping of Soil and Water Samples	2	05/12/92
DCN 92.01	Chain of Custody	2	07/27/92
DCN 92.02	Improve Tracking of Samples	2	12/08/92
FO.14	Field Data Management	2	05/12/92
DCN 92.01	Update Bottle Codes and Lab Codes to Current Status	2	06/30/92
DCN 92.02	Clarification of Biological Locations (07/08/92- Extended)	2	11/20/92
DCN 92.03	Changes in Procedures (07/08/92 - Extended)	2	11/20/92
DCN 92.04	Expired	2	10/15/92
DCN 92.05	Update QA/QC Code List	2	09/28/92
DCN 92.06	Clarify Description	2	09/28/92
DCN 92.07	Update Bottle Code List	2	09/28/92
DCN 92.08	Add Sub-Contractor Abbreviations	2	10/14/92
DCN 92.09	Major Form Revision	2	11/03/92
DCN 92.10	Elimination of Non-Required Section	2	11/10/92
DCN 92.11	Update Bottle Code & Lab Codes to Current Status	2	12/09/92
FO.15	Photoionization Detectors (PIDs) and Flame Ionization Detectors (FIDs)	2	05/12/92

**ROCKY FLATS PLANT
EMD OPERATING
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<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
FO.16	Field Radiological Measurements	2	05/12/92
DCN 92.04	Expired	1	09/22/92
DCN 92.05	Addition of HPGe	2	11/24/92
FO.17	Determining Out-Of-Specification Analytical Results for Environmental Samples		To Be Added
FO.18	Environmental Sample Radioactivity Content Screening	1	05/12/92
FO.19	Base Laboratory Work	2	05/12/92

Title <i>Handling of Drilling Fluids and Cuttings</i>	Date <i>12/7/92</i> <i>12/7/95</i>	DCN Number <i>92.10</i>
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Expires 12/7/93

Procedure Revision Required

☒ Yes ☐ No

Scope Limitation: *None*

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)
1	11	6.4.1 # 2	Revise 2 nd sentence to read : " Once the laboratory analytical results of the environmental samples (if required) have been..... "

Justification (Reason for change - Provide numbers to reference corresponding items above.)

1. *In some drilling operations, samples will not be taken for analysis.*

DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991

Concurrence	Organization	Req.	Date	Concurrence	Organization	Req.	Date
<i>Greg M. Gung</i>	QAPM	X	12/8/92	<i>A.L. Purnan</i>	User	X	12/7/92
Approval of Responsible Manager <i>W. J. [Signature]</i>	Date <i>12/8/92</i>	Is Posting required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, by what date? <i>upon receipt</i>	Date posted			

5-21000-OPS-FO.10, Rev. 2 This is a # 2 2
CONTROLLED DOCUMENT ENVIRONMENTAL MANAGEMENT
EG&G - ROCKY FLATS PLANT DOCUMENT CHANGE NOTICE (DCN)

ENVIRONMENTAL MANAGEMENT

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cedure Number 5-21000-OPS-FO.10, Rev. 2

Page 1 of 1

Title	Receiving, Labelling and Handling Environmental Material Containers	Date	12/3/92	DCN Number	5-21000-92.08
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Expires 12/3/93 Procedure Revision Required ☒ Yes ☐ No

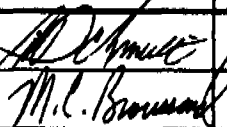
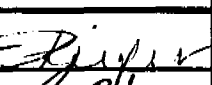


Scope Limitation None

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	19	8.4	Change this section to Section 8.5.
2	19		Add as Section 8.4: Drum Composite Log Form The Drum Composite Log Form (Form FO.10D) will be used to document/record the locations and drums utilized for composite drum samples. The field sampling crew will obtain a block of composite sample numbers and composite location codes from the RFEDS User System Manager. The Drum Composite Log Form will be used to document where composite samples were taken with each composite location and drum number recorded.
3			Add Form FO.10D, Drum Composite Log Form

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

This SOP does not address composite sample tracking and yet it is a required activity for field work.

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JUNE 11, 1991

Cohcurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X	12/10/92		User	X	3-Dec-92
	EOM	X	12/8/92		User	X	3-Dec-92
Approval of Responsible Manager			Date	Is Posting Req'd?	If Yes, By What Date?		Date Posted
			12-8-92	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

DRUM COMPOSITE LOG FORM

Composite Sample Number: _____

Composite Location Number: _____

Name of the Subcontractor: _____

Date: _____

Location Number: _____

Drum Number: _____

Drum Number: _____

Drum Number: _____

Drum Number: _____

Location Number: _____

Drum Number: _____

Drum Number: _____

Drum Number: _____

Drum Number: _____

Location Number: _____

Drum Number: _____

Drum Number: _____

Drum Number: _____

Drum Number: _____

Location Number: _____

Drum Number: _____

Drum Number: _____

Drum Number: _____

Drum Number: _____

Note: Refer to Form FO.10A for detailed information regarding each drum listed above.

3-15-12/1/92 This is a #22
CONTROLLED DOCUMENT ENVIRONMENTAL MANAGEMENT
DOCUMENT CHANGE NOTICE (DCN)

EG&G - ROCKY FLATS PLANT
 ENVIRONMENTAL MANAGEMENT

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Procedure Number 5-21000-OPS-FO.13 REV.2

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Title Containerization, preserving, handling, and shipping of solid and water samples	Date <u>12/8/92</u> 16 NOV 92	DCN Number 5-21000-OPS- <u>92.02</u>
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Expires 16 NOV 92 12/8/92 Procedure Revision Required ☒ Yes ☐ No

Scope Limitation none

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	12 of 18	end of 6.3.2	Add to the list of the information that the chain of custody must include • EG&G field work charge number
2	12 of 18	end of 6.3.2	Insert the following sentence at the end of the 6.3.2 section: All chain of custodies must be copied prior to relinquishing custody to contract laboratories on a daily basis. The copy must be placed in the clearly marked "in-box" located at trailer T891E in the EG&G Rocky Flats sub-contractors trailer yard. Delivery of this copy ^{will} be no later than 9:00 AM the working day following sample shipment. <u>OK</u>

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

1. The field work charge number is captured in the environmental database. This number will be used to track individual projects.
2. Sample management will have the ability to track sampling activities for all projects upon daily receipt of the chain of custody.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	12/8/92	<i>[Signature]</i>	User	X	11/16/92
<i>[Signature]</i>	EOM	X	12/7/92	<i>[Signature]</i>	SMD		11/16/92

Approval of Responsible Manager <i>[Signature]</i>	Date <u>17 Nov 92</u>	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? <u>upon receipt</u>	Date Posted
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DCN Form 001

W. S. Busby

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 PER R.B. HOFFMAN, CLASSIFICATION OFFICE
 JUNE 11, 1991

11/23/92 This is a *RED*
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 ENVIRONMENTAL MANAGEMENT
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ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number *21000* *EMM*
5-51000-OPS-FO.16, Rev. 2

Page 1 of 1

Title Field Radiological Measurements	Date 11/24/92	DCN Number <i>92.05</i> 5-21000-OPS-FO.16, R2
Expires <u>November 24, 1993</u>		
Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u>Operable Unit No. 5, IHSSs 115 and 133.1 to 133.6</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	9	6.2.2.1	<p>Replace the first paragraph of this step with the following:</p> <p>Work area monitoring will be accomplished (prior to work starting) to indicated if surficial radioactivity exists in the immediate work area. Prework area monitoring will be accomplished by making soil surface measurements with a high-purity germanium (HPGe) detector. In addition, a direct soil surface measurement will be made at the designated drilling location with a Bicron Analyst Fidler (or equivalent instrument). As per EMRG 6.6, any readings in excess of 2 X background will be reported to the Site Safety Officer (SSO). Documentation of area monitoring with the Bicron Analyst Fidler will be accomplished by completing Section I of Form FO.16A, Results of Radiological Measurements In The Field.</p>

Justification (Reason for Change - Provide Numbers To Reference Corresponding Items Above)
 Prior to initiating field activities at IHSSs 115 and 133.1 to 133.6, surface radiological surveys will be performed with the HPGe detector. These surveys will determine the presence of surficial radioactivity at these sites. As an added check, readings will also be taken at each drilling location with the Fidler and with an alpha probe.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	12/10/92	<i>[Signature]</i>	User	X	11/24/92
<i>[Signature]</i>	EDM	X	12/8/92	<i>[Signature]</i>	User	X	12/8/92
				<i>[Signature]</i>	User	X	12/9/92
Approval of Responsible Manager				Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<i>[Signature]</i>				If Yes, By What Date?			
Date 11/24/92				Date Po			

DCN Form 001

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